

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Vitalij LISSOTSCHENKO and Aleksei MIKHAILOV

Group Art Unit:

Serial No: 10/564,883

Examiner:

Filed

: January 17, 2006

For

: BEAM FORMING DEVICE

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant encloses a copy of the International Preliminary Report on Patentability (English translation). All claims (1-21) were deemed to be novel, have an inventive step and have Industrial Applicability.

Respectfully submitted,

Stewart L. Gitler Reg. No. 31,256

August 10, 2006

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Attorney's Docket: A-9835.SIPRP/cat

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PT 04/234/WO	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/EP2004/008500	International filing date (day/month/year) 29 July 2004 (29.07.2004)	Priority date (day/month/year) 01 August 2003 (01.08.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant HENTZE-LISSOTSCHENKO PATENTVERWALTUNGS GMBH & CO KG				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.						
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.						
3.	3. This report contains indications relating to the following items:						
	Box No. I	Basis of the report					
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
		Date of issuance of this report 03 July 2006 (03.07.2006)					

Authorized officer

e-mail: pt05@wipo.int

Ellen Moyse

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the		NAL SEARCHII	NG AUTHOR	ITY			
То:						PCT PCT	
						RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
						(PCT Rule 43bis.1)	
					Date of mailing (day/month/year)		
	_	gent's file referen	ice		FOR FURTHER		
		234/WO		12	See paragraph 2 below		
International application No. International filing date PCT/EP2004/008500 29.07.2004				day/month/year)	Priority date (day/month/year) 01.08.2003		
Internat	ional Pa	tent Classification	n (IPC) or both	national classification an	d IPC		
Applica HEN		-LISSOTS	CHENKO	PATENTVERWA	LTUNGS GMB	H & CO KG	
1.		pinion contains is	ndications relat	ting to the following items	:		
		Box No. I	Basis of the	opinion			
	\boxtimes	Box No. II	Priority			,	
	\sqcup	Box No. III	Non-establis	shment of opinion with reg	gard to novelty, inventi	ive step and industrial applicability	
		Box No. IV		y of invention			
		Box No. V			s.1(a)(i) with regard to novelty, inventive step or industrial ons supporting such statement		
	닏	Box No. VI	Certain docu	uments cited			
	Ц	Box No. VII	Certain defe	cts in the international app	olication ·		
	Ш	Box No. VIII	Certain obse	ervations on the internation	nal application		
2.	FURT	THER ACTION					
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For fu	rther options, see	Form PCT/ISA	A/220.			
3.	For fu	rther details, see a	notes to Form l	PCT/ISA/220.			
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Facsimil	le No				Telephone No.		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/EP2004/008500

Вол	k No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
ŀ	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/EP2004/008500

Box No. II	Priority				
1.	The following document has not yet been furnished:				
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).				
[translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).				
C ti	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date in the claimed priority date.				
ш,	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.				
3. Additi	ional observations, if necessary:				
	, and the second se				
	\cdot				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/008500

Box No. V		r Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; supporting such statement		
1. Statement				
Novelty	(N) Clair	ms 1-21	YES	
	Clair		NO	
Inventive	rten (IS)			
Inventive		ms <u>1-21</u>		
	Cian	ms 1	NO	
Industria	applicability (IA) Clair	ms 1-21	YES	
	Clair	ms1	NO	
2. Citations and	l explanations:			
	-			
		made to the following documents:		
		76 435 (ROHM CO LTD) 30 January 2002		
	(2002-01-30)	2214 7 (UDNEED TOTALITM, ITCCOTCCUENTO		
		0314 A (HENTZE JOACHIM; LISSOTSCHENKO		
\	(TIALY (DE)) .	12 March 1998 (1998-03-12)		
2 I	ocument D1 (see figure 32b) is considered to be the		
		sest to the subject matter of claim 1.		
l -	It discloses (the references between parentheses			
	elate to this			
		producing an optical beam-forming device		
		east two joined-together optically		
f	unctional cor	mponents.		
נ	The subject m	atter of claim 1 differs from the known		
n	nethod for pr	coducing an optical beam-forming device		
į	n that the	optionally functional components have		
C	ylindrical le	ens means.		
2.1	The subject m	atter of claim 1 is therefore novel (PCT		
I	article 33 (2))).		
		•		
1		addressed by the present invention can		
		considered that of producing a beam-		
f	forming device	e with alternative optical properties at		
נ	ow cost.			

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.3 The solution to this problem that is proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

beam-forming devices with cylindrical lens means are known, see document D2 (figure 1). However, it would not be obvious to a person skilled in the art to compose such a device from two optically functional components.

Document D1 discloses a method for producing an optical beam-forming device from at least two joined-together optically functional components. However, there is no suggestion that, instead of the spherical or aspherical lens means that are used in D1 (paragraph [0108]), cylindrical lens means could also be used.

- 2.4 Claims 2-16 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.
- The same reasoning correspondingly applies to the independent claim 17. The subject matter of claim 19 is therefore likewise novel (PCT Article 33(2)) and involves an inventive step (PCT Article 33(3)).
- 3.1 Claims 18-21 are dependent on claim 17 and therefore likewise meet the PCT requirements for novelty and inventive step.